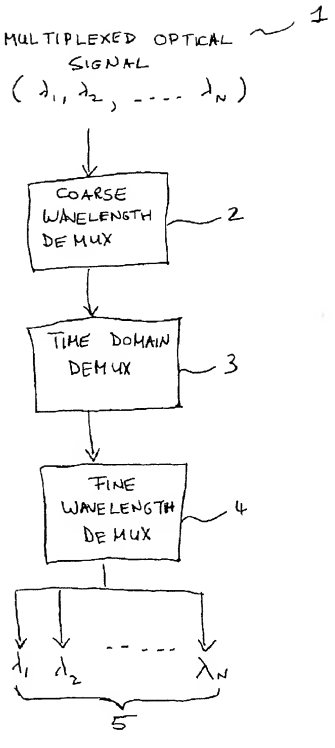
MULTIPLEXED OPTICAL SIGNAL
(λ1, λ2, ... λN)
1
COARSE WAVELENGTH DE MUX
2
TIME DOMAIN DEMUX
3
FINE WAVELENGTH DE MUX
4
λ1 λ2 ..... λN
5

Fig. 1 a

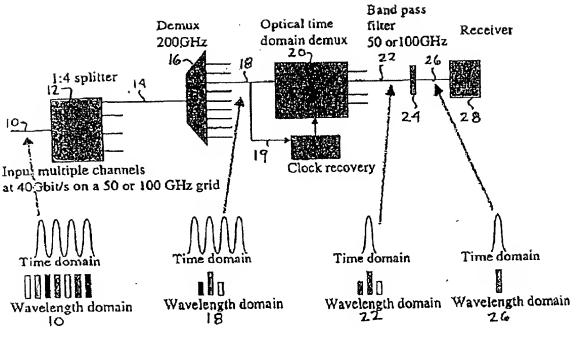
Demux
200GHz
Optical time
domain demux
Band pass
filter
50 or100GHz
Receiver
1:4 splitter
16
18
20
22
26
12
14
24
28
10
19
Clock recovery
Input multiple channels
at 40 Gbit/s on a 50 or 100 GHz grid
Time domain
Time domain
Time domain
Time domain
Wavelength domain
10
Wavelength domain
18
Wavelength domain
22
Wavelength domain
26

Fig. 1

Fig. 2

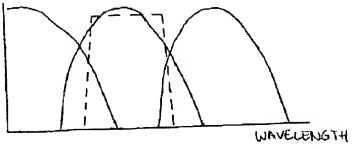

Fig. 3

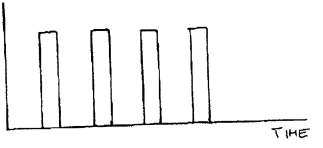

Fig. 4

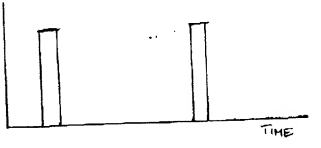
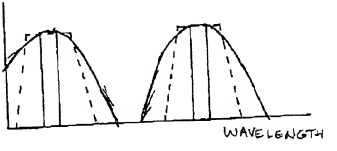
Fig. 5